Navajo Abandoned Uranium Mine

Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits, pits and waste piles. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands that may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, and record all immediate site information associated with the mine site. Decisions and recommendations on what additional steps are needed will be provided on a separate document.

NA-0928 AUM Site

Navajo AUM Northern Region

Prepared by:

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Contract: W91238-06-F-0083

12767.063.496.1111

August 2010

Part I Site Identification, Location and Status Site Names and ID numbers as applicable Mine ID: 63 Map ID: N15 **CERCLIS:** NNN000908967 Navajo Abandoned Mine Land Reclamation Program: NA-0928 Local name / Aliases: None **Chapter and local area:** Teec Nos Pos Chapter County: Apache State: Arizona **Lat/Long:** 36.908523996 N / -109.309169244 W Nearby road and highway: Highway 160 Local Post Office: Teec Nos Pos Surface Land Status: check one or more and provide ownership and contact information below **Tribal Trust Land Public lands Private Tribal Fee Land Bureau of Land Mgmt Allotment** State Fee land **Subsurface Mineral Rights:** No information on subsurface mineral rights ownership was found in the EPA/AUM Database. **Claim and operator information:** The mine site surface land status is classified as Tribal Trust Land. No other historical ownership / lease information was identified in the EPA/AUM database. Number of residential structures within 200 feet of mine: None

Estimated volume of mine waste onsite: 85 yd³

Part II Summary of radiological readings

Highest gamma radiation measurement:

316,206 counts per minute (cpm)

Describe any other radiological measurements:

A total of 2,572 gamma radiation measurements were collected from the mine site, ranging from 5,009 cpm to 316,206 cpm. Measurements collected in the vicinity of the waste debris were found at levels up to approximately 22,000 cpm in the grey dirt area, 75,000 cpm above the pile, and in one spot on the southeast side down-slope of the mesa at levels up to approximately 300,000 cpm. The measurements are represented in Figures 1 and 2.

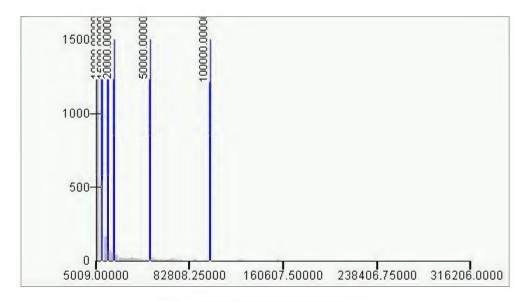
Background Locations

Average background = 8,688 cpm

#1 8,688 cpm

Distribution Chart and Statistics:

The following chart and statistics were generated by ESRI ArcGIS 9.3.1, and show the general distribution of the site gamma radiation measurements. The horizontal X axis represents the gamma radiation reading levels in cpm (lowest levels to the left). The vertical Y axis represents the frequency of each gamma radiation level.



 Count:
 2572

 Minimum:
 5009.00000

 Maximum:
 316206.00000

 Sum:
 38906335.00000

 Mean:
 15126.87986

 Median:
 7871.00000

 Standard Deviation:
 26232.91907

Part III Status of Reclamation and Mine Waste

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed: Yes Waste Pile onsite: No

NAMLRP Project Number: NA-0928

NAMLRP Mine features: 3 Rim Strip / Pits

The following information was obtained from field observations collected during the 2010 site screening:

Provide description and status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.

Observed	reclam	ation	work	and	ctatuc.
Observed	reciaina	auvii	WULK	anu	status.

Adits

None

Waste Piles

Possible waste down E side slope, grey dirt and rocks 50' x 30' x 1.5'

Pits

None

Shafts

None

Other Debris and Mine Features

None

Part IV

Site observations and Environs

Observed Structures: list number of and describe human habitation status of structures at the following distances from mine:

0 to 200 feet: None

200 feet to 0.25 mile: Growler residence approximately 0.25 mi NE of site

Observed Public or commercial structure: list and describe all schools, clinics, Chapter Houses, places of business and any other structure used by members of the community at the following distances:

0 to 200 feet: None

200 feet to 0.25 mile: None

Levels measured around the perimeter(s) of the identified structure(s):

Consistent with background levels

Observed water sources: list the number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine:

0 to 0.25 miles: None

0.25 miles to 4 miles: None

Sensitive environments: note and describe all sensitive environments located within visible range of the mine site, including: wetlands, endangered species, habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation.

None

Known Site History: include information from interviews with Chapter officials and residents. Note information on mine ownership, type of mining operation, period of operation, known amount of production, and any other information as provided.

NA-0928 mine consists of an area of 31,138.18 m². The mine was not identified as ever being operational. No other historical information or any additional ownership / lease information was identified in the EPA/AUM database.

Part V Response Action Summary

Site Name(s): NA-0928 Chapter: Teec Nos Pos

Decision Criteria

Is there an unreclaimed waste pile at the site? Yes

At what distance from the waste pile is the nearest residential structure located? 0.25 mi

At what distances from the waste pile are there potential drinking water sources? None

Is there a reclamation cap or sealed adit in place at the site? No

Is the cap/seal functionally intact? None

Is the cap/seal sufficiently degraded to create a concern about releases? No

At what distance from the cap/seal is the nearest domestic structure located? None

At what distance from the cap/seal is the nearest domestic drinking water source? None

Summary of emergency response factors

None

Summary hazard ranking system factors

None

Summary of reclamation factors

Possible unreclaimed waste rock

Part VI Photos



Photo 1. NA-0928 site



Photo 2. NA-0928 site



Photo 3. NA-0928 site



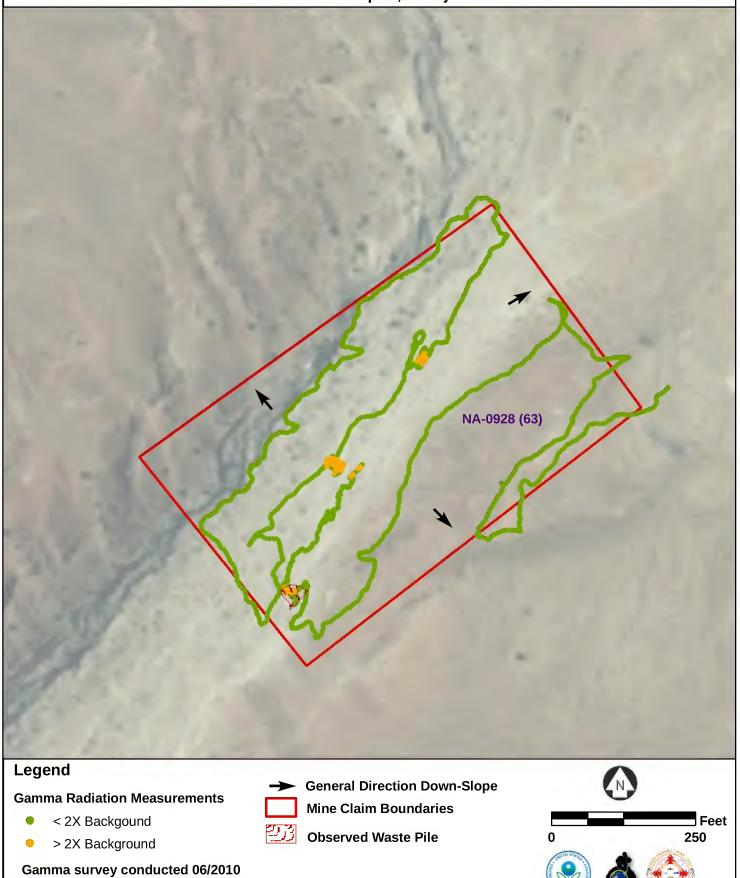
Photo 4. NA-0928 site



Photo 5. NA-0928 site

Par	t VII	Contacts Reports and Information				
	Name:	<u>Stanley Edison (928) 871-6861</u>				
		Eugene Esplain (928) 871-7331				
	Title or official role (if any) Navajo EPA Superfund Program					
	Address	PO Box 2946, Window Rock, AZ 86515				
	Information provided <u>Lead Regulatory Agency</u>					
	Name:	Rick & Jeannette Growler (son - Angus) (505) 406-1904				
	Title or of	Clarissa Nakai (505) 258-3921 ficial role (if any) home owner, local resident				
	Name		_			
	Title or of	ficial role (if any)				
	Telephone number					
	Information provided					
-						
	Name		-			
,	Title or of	ficial role (if any)				
,	Telephone	e number				
	Informatio	on provided				

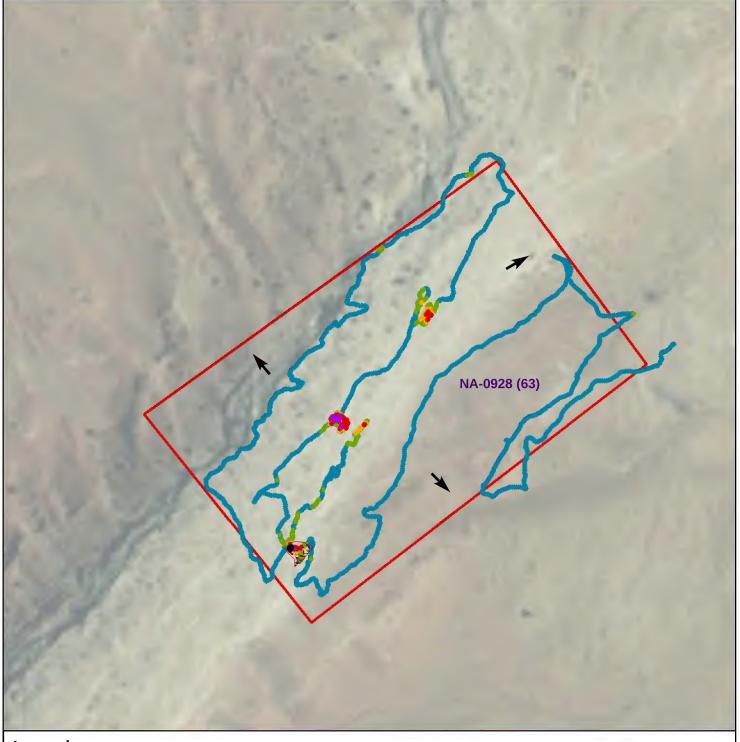
Figure 1 - Gamma Radiation Measurements, Above Two Times Background
NA-0928 (63)
Teec Nos Pos Chapter, Navajo Nation



Average background = 8,688 cpm

Measured as counts per minute (cpm)

Figure 2 - Gamma Radiation Measurements NA-0928 (63) Teec Nos Pos Chapter, Navajo Nation



Legend

Gamma Radiation Measurements

- 0 10,000
- 10,000 15,000
- 15,000 20,000
- 20,000 50,000
- 50,000 100,000 > 100,000

General Direction Down-Slope



Mine Claim Boundaries



Observed Waste Pile

Gamma survey conducted 06/2010 Measured as counts per minute (cpm)

Average background 8,688 cpm

